

IN THE CLAIMS

A listing of the claims presented in this patent application appears below. This listing replaces all prior versions and listing of claims in this patent application.

1. (Currently Amended) A fuel cell system comprising: a fuel cell; fuel gas supply means for supplying a fuel gas to an anode of said fuel cell; oxidant gas supply means for supplying an oxidant gas to a cathode of said fuel cell; inert gas supply means for supplying an inert gas to the anode and/or cathode of said fuel cell; and means for measuring a pressure P_a in an inlet-side flow path leading to the anode of said fuel cell and a pressure P_c in an inlet-side flow path leading to the cathode,

said fuel cell being subjected to a purge operation of replacing the fuel gas and/or oxidant gas in said fuel cell with the inert gas supplied from said inert gas supply means when said fuel cell is started up or shut down,

wherein said fuel cell system further comprises control means for increasing or decreasing the amount of the inert gas supplied to said fuel cell based on the values of P_a and P_c during the purge operation of said fuel cell, and

wherein the differential pressure ΔP is defined as $\Delta P = P_a - P_c$, and the differential pressure during operation ΔP_o and the differential pressure during the purge operation ΔP_p satisfy the ~~relation~~ relations: $0 < \Delta P_o \times \Delta P_p$ and $|\Delta P_p| \leq |\Delta P_o|$.

Claims 2 – 3 Cancelled

4. (Currently Amended) The fuel cell system in accordance with claim 1 ~~or~~ 2, further comprising means for changing the internal diameter of an outlet-side flow path of an exhaust gas from said fuel cell, and means for changing said internal diameter based on the values of P_a and P_c during the purge operation of said fuel cell.